>>>>>>>><<<<<<<<

THE

PLOTTER

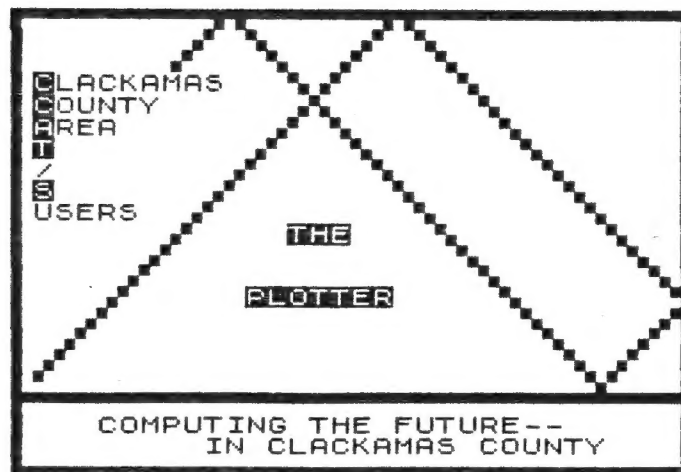**********************************

MEETING

The AUGUST meeting will be:

on: FRI., AUG 10, 1990

meeting room open at: 7:00 P.M.
in: COMMUNITY ROOM
    FAR WEST FEDERAL S & L
    OREGON CITY SHOPPING CENTER
****

WHAT YOU WILL FIND IN THIS ISSUE

COMPUTING THE FUTURE--
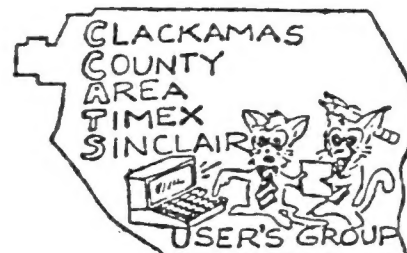IN CLACKAMAS COUNTY

EDITORIAL

Ha! so you figured the Old Editor is again writing about the lack of input from our readers. No, not this time. I had to wait for a cool day to get this one out.

What ever happened to the hyphenated word in printing, particularly with narrow columns? Since the influx of word processors in the printing industry, it seems that half a line length can go unfilled when right justifying, and no one pays any attention.

Sometimes I try to clean up the columns after making a draft copy. This method usually falls apart after the first change because all of the following lines are now different. A better way is to set the screen width to be exactly that of the column. Watch it, my word processor requires a column width of 37 when I print a 36 column.

A dictionary, (you remember those books, don't you), is mighty handy at this point. After all, there aren't that many words that you don't know, so it isn't all that big a task.

>>>

Many news papers and magazine writers (editors?) seem to just put the article together and let it go. Maybe we need a word processor that has editing capability as well as a built-in dictionary that automatically makes these corrections.

Another irksome item for me is to see a last line in a paragraph have two words in it that starts with one word and right justifies to the end with the last word. All because the writer didn't put in an end-of-line marker after the period. This happens on the last paragraph because all other paragraphs require an end-of-line marker in order to get to the next paragraph, unless a period lands right on column 35.

PRODUCT REVIEW
SPECTRUM EMULATOR FOR 2068
BY Jack Dohany
PRICE: $15.00 + $3.00 S & H

There have been several Spectrum emulators on the market over the years. It seems that once the subject is covered it is old news. This one simply replaces the original 2068 ROM with an error-corrected Timex Sinclair-Spectrum ROM. The EPROM carries each operating program in separate 16K sections. The selection is by an installed switch.

Mechanically, some work is required on the computer to make the change. The top cover is removed and the switch installation is made in the bottom case next to the right game port. This requires drilling 2 small screw holes plus cutting out a slot for the switch slide.

The original ROM is removed and replaced with the new one. Instructions are explicit for this plus the switch installation and a small soldering job.

There are two jumpers about in the middle of the circuit board labeled W1 and W2 that require cutting a lead of each. The soldered in leads can be removed from the top side but it requires only 3 screws to be removed and a better job can be done from the trace side. A 2 diode prewired insert is provided for replacement. The leads are even nicely bent to fit. This unit has 3 leads.

It is sure nice to do editing of long lines and not have the cursor stumble on the DELETE. Part of this change requires DELETE to be obtained with SS+0 in place of CS+0. Erase is still with CS+0. The cursor rips along as it should.

Thus for $18.00 (order other products and save $3.00) you get an emulator that works with Larken and Oliger drives without software. Now I can use the Larken system in Spectrum mode as the cartridge port is free. These 2 systems can be initialized and used at will in either mode. However, the computer must be turned on in either Sinclair or Spectrum mode.

Send to Jack Dohany
390 Rutherford Ave.
Redwood City, CA 94061 for details and ordering information.

By: Dick Wagner

MIKE'S NOTEBOOK
By: Michael J. Di Rienzo

I like to work with computer graphics on the TS2068 and I frequently need to look up bit patterns for User Defined Graphics characters. Knowing the bit patterns of a specific byte can also help to better understand machine code among the many other uses. The following BASIC program will print out all 256 bit patterns, their hexadecimal and decimal equivalent. A zero is represented as a blank box and a one is a filled box. In fact, the UDG "A" and "B" are poked with their pre-planned bit patterns in lines 300 to 340. To see what I mean, just

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type in the following program which will fill up the page then prompt you to Quit, COPY to 2040 printer or CONTINUE. If you want to copy to full sized printers then change line 240 and add your own printer driver to COPY the screen. I always have a copy of all the bit patterns handy while programming. I added line 115 and changed line 120 to increase the pattern print speed by 65%. Make sure that you use UDG graphics "A" in line 140 and UDG "B" in 150. Lines 300 to 340 POKE the UDG's with the proper bytes.

Happy TIMEXing...

"BITS" By Michael Di Rienzo

```
 10 GO SUB 300
 20 POKE 23658,8: LET n=0
 30 LET h$="0123456789ABCDEF"
 40 FOR c=1 TO 2
 50 IF c=1 THEN LET c1=0: LET c
2=4: LET c3=7
 60 IF c=2 THEN LET c1=17: LET
c2=21: LET c3=24
 70 PRINT AT 0,c1;"Dec";TAB c2;
"Hex";TAB c3+1;"Binary"
 80 FOR z=1 TO 21
 90 LET s=INT (n/16)
 100 PRINT AT z,c1;n;TAB c2;h$(1
+s);h$(1+n-16*s);TAB c3;
 110 FOR b=7 TO 0 STEP -1
 115 LET l=1: FOR w=1 TO b: LET
l=l*2: NEXT w
 120 LET x=INT (n/l)
 130 LET t=x-INT (x/2)*2
 140 IF t=1 THEN PRINT "A";
 150 IF t=0 THEN PRINT "B";
 160 NEXT b
 170 PRINT
 180 LET n=n+1
 190 IF n=256 THEN GO TO 220
 200 NEXT z
 210 NEXT c
 220 PRINT #1;AT 1,0;"(C)opy,(Q)
uit,ENTER to Continue"
 230 LET q=CODE INKEY$
 240 IF q=67 THEN COPY : LPRINT
: IF n<256 THEN CLS : GO TO 40
 250 IF q=81 THEN STOP
 260 IF q=13 AND n=256 THEN STOP
 270 IF q=13 THEN CLS : GO TO 40
 280 GO TO 230
 300 FOR n=USR "A" TO USR "A"+15
 310 READ a: POKE n,a
 320 NEXT n
 330 RETURN
```

340 DATA 0,0,126,126,126,126,12
6,0,0,0,126,66,66,66,126,0

EDITORS NOTE: readers may have difficulty with lines 115 and 120 as the difference between 1 and l is not clear. LET l=1, LET l=l*2, INT (n/l).

Users of printer graphics can take advantage of this program by mentally rotating the print-outs so the left end of the graphic line is top, corresponding to the coding of most dot matrix printers with 8 pins in use.

MORE ON GETPUT

Dick Wagner

Please refer to the June issue of THE PLOTTER for details of this program.

A handy program format follows for Larken users. The CODE has been saved as "getput.C1" at address 60000, 396. This is the code entered in GETPUT. This program makes it easy to enter formulas, text, etc, to be scrolled in part across the screen.

If an image is on the screen when "Getput" is loaded, the star will rotate back and forth, dragging part of the text with it.

```
 2 REM "GETPUT" by Mike De Rien
zo
 3 REM see program in THE PLOTT
ER 6/90 issue for details
 5 RANDOMIZE USR 100: LOAD "get
put.C1"CODE
 10 LET get=60000
 20 LET put=60006
 30 PLOT 9,142: DRAW 57,10,4000
 40 RANDOMIZE USR get: PRINT AT
0,0;10,10,50000
 45 PRINT  FLASH 1;AT 4,2; INK 2
;"GETPUT"; INVERSE 1;AT 5,2; INK
1;"Demo!!": PRINT AT 10,5;"Press
a key to start...": PAUSE 0
 50 LET d=-1: LET dx=d: LET dy=d
: LET x=-d: LET y=-d
 55 CLS
 60 LET x=x+dx: LET y=d+dy
 70 IF NOT x OR x=22 THEN  LET d
```

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```
x=dx*d: BEEP .01,y
   80 IF NOT y OR y=14 THEN  LET d
y=dy*d: BEEP .01,x
   90 RANDOMIZE USR put: PRINT AT
y,x;10,10,50000
  100 GO TO 60
```

BITS & BYTES

by: ROD GOWEN

Heard any TS related news lately? Did you get any information in the mail from other users, user groups, or vendors that may be of interest to our readers? If so, why not share it with us? We need all of the help that we can get. Please send any info that you might have to: Rod Gowen, C/O CCAT/S, 1419 1/2 7th Street, Oregon City, OR 97045, or, phone in at:503/655-7484, noon – 10 PM weekdays. I55-7484hat the entire user group will appreciate it!

PC SEG MEETING-

Went off rather well. We had about 11 hardy souls brave the heat and show up. This included 2 guests brought by existing club members. We hope to see the same strong showing at future meetings. It was decided to have our PC-SEG meetings right after our regular CCAT/S meeting each month, as we cannot get the meeting room more than once a month. This may prove to be of benefit to both parts of the club. We may pick up some new members thru PC-SEG who are not and never have been TS users and maybe even some TS users who are looking at PC clones. Either way, we gain more support and a broader base. At the next meeting we will learn how to set up the PC and get started with AUTOEXEC.BAT & CONFIG.SYS files. Then we can get started learning MS-DOS.

NOT MUCH NEW-

In the way of TS news. It has been a real quiet summer except for the show that they held in Milwaukee, WI in June. From reports printed in various news letters, the turn out was about what they expected. Mostly folks from the "Midwest" without too much response from the deep south and we users west of the Mississippi river. There is already talk of a show next year about the same time. We wish them luck. According to RMG, sales are really down this year. Over 80% lower than the same period last year. Without the PC clone sales RMG would likely follow the way of most other TS dealers by now. We need to support our few remaining TS dealers.

SINCLAIR ECHO DYING?-

According to the Sysop of THE BULL PEN BBS, the home of the SINCLAIR USERS UNITE! ECHO, there is going to be a wide ranging sweep of the Echo mail system and there will be a lot of the Echos dropped for lack of use. The Sinclair Echo is a prime target. Too bad, both Bob Curie, the Sysop, and I have put in a lot of time And effort into getting this thing up and running for you, the TS users out there. We even made it available to the SNUG organization for use as a central clearing house. It seems, however, that, due to what ever reasons, politics or anything else, they declined to take advantage of this powerful and FREE resource. We get what we deserve and what we are worth. If you have a modem, LEARN TO USE IT AND DO SO! Otherwise, lets not hear complaints when what you had is gone!

TOLL-FREE LINE GONE-

RMG reports that, as of August 1, 1990, the TOLL-FREE order line that was installed for the use of customers will no longer be in service. Reasons given for the disconnection were: LACK OF USE, MISUSE, and TOO MANY WRONG NUMBERS. The 24 hour FAX line at 503/655-4116 is still in operation as well as the old reliable 503/655-7484 NOON-10PM Pacific Time, Tue-Sat.

PC SHAREWARE LIBRARY-

At RMG is growing at an average of 3 megabytes per week. With over 50

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megabytes already in the library, it will only continue to grow. For the benifit of all of you who want quality PC DOS software at an affordable price, this service will be a great help. Word processors, data base, spreadsheets, and much more are yours for about $3.00 per disk. Try it, and, if you like it then you pay the author for it. RMG is not selling this software, only charging a small copy fee.

That's about it for now---

Till next time

TYPETAS.TXT
By: Ed Gray

(Down loaded from Sinclair User Unite!)

Using Tasword II to create a TYPEeable (on BBS) TEXT FILE.

It has come to my attention that SPECTERM-64 users have been having difficulty creating text files with Tasword II, to be uploaded to the TIME-=X=-Change BBS (213-329-3922) or any other BBS, to be read (TYPEd) online. The fault is NOT with SPECTERM-64 or the BBS, but rather with the way the Tasword II handles its data. Tasword II files, unlike Mscript files, DO NOT include carr-iage returns (CR) or line feeds (LF) at the end of EVERY LINE. There is a LF (but no CR) at the end of each paragraph. Therefore when a file, created with Tasword, is uploaded to a BBS, the remote system does not (cannot) display the file correctly. It has no reference to use in order to keep the text registered (align-ed) properly.

I have devised a very simple proced-ure which allows you to add the nec-essary CR and LF (LF not needed for Timex, but is needed for lesser sys-tems) to the end of each line. I have used this method to upload this text, so if you are reading this ON-LINE, that verifies that it works.

To begin, first you MUST set Tas-word's right margin to 62 instead of the normal 64. Do this by placing the cursor in column 62, then from "extended mode" hit "D". You should see the 2 columns, furthest to the right, change colors. Next, type and edit your text as you normally would and SAVE to tape or disk (or what-ever) when finished. Tasword will tell you the length of your file, make note of it. Now comes the tricky (not really) part.

1. Remove Tasword II from your 2068

2. Load the text file into your computer at address 30000.

```
        LOAD /"<filename>"    CODE
30000,<filelength>
```

NOTE: You may have to modify this syntax to fit YOUR mass storage. This is correct syntax for the disk system.

3. Type in or LOAD the following Basic program.
```
    10  FOR  x=30062  to  (30000 +
<filelength> STEP 64
   20 POKE x,13 : POKE x + 1,10
   30 NEXT x
        40    SAVE    /"<filename>"CODE
30000,<filelength>
```

4. Now load your SPECTERM-64 terminal software, go to your disk LOAD and SAVE menu, and load this modified Tasword file into your buffer. Send, to your favorite BBS, using Xmodem protocol and it is done. If you are using a tape based T/S2068 you must LOAD this file from the Basic area also. You can so this by using the formula in SPECTERM LOAD "<filename>"044<ient>. Re-enter SPECTERM-64 with:
    GO TO 1500

FADEAWAY

From Sincus #105 program disk on file in CCAT/S library.

This program, when run, will ask how long you want the screen to stay illuminated after the last input. Nice for cutting down on screen burn.
                                    >> >> >>

```
   3 REM "YOUR SINCLAIR" APRIL 8
8          by ANDY PENNELL
   4 REM FADE AWAY  prevents bur
ning in of an image on your tv s
creen
   5 RESTORE
  10 CLEAR 64198
1000 FOR I=64967 TO 65023
1010 READ A: POKE I,A
1020 NEXT I
1030 FOR I=65281 TO 65365
1040 READ A: POKE I,A
1050 NEXT I
1060 INPUT "DELAY IN SECONDS IS
";S
1070 LET S=S*50: LET T=INT (S/25
6)
1080 POKE 65287,T: POKE 65286,S-
256*T
1090 RANDOMIZE USR 64967
1100 PRINT "USR 64994 TO SWITCH
OFF"
2000 DATA 33,0,254,6,0,243
2010 DATA 54,253,35,16,251,54
2020 DATA 253,62,254,237,71,237
2030 DATA 94,251,33,1,0,34
2040 DATA 251,253,201,237,86,201
2050 DATA 255,243,245,229,197,21
3
2060 DATA 237,91,251,253,205,1
2070 DATA 255,34,251,253,209,193
2080 DATA 225,241,251,201,2,0
2090 DATA 195,229,253
2100 DATA 122,179,40,50,33,232
2110 DATA 3,167,237,82,40,11
2120 DATA 235,35,253,203,1,110
2130 DATA 200,33,1,0,201,33
2140 DATA 0,88,17,199,250,1
2150 DATA 0,3,126,18,54,0
2160 DATA 35,19,11,120,177,32
2170 DATA 245,211,254,62,184,50
2180 DATA 255,90,3,0,0,201
2190 DATA 235,253,203,1,110,200
2200 DATA 33,199,250,17,0,88
2210 DATA 1,0,3,237,176,58
2220 DATA 72,92,230,56,15,15
2230 DATA 15,211,254,33,1,0,201
```

BUILDER

From SINCUS library disk #104 that
we have in the CCAT/S library.

The DATA will form the bricks used
as A, AA, and BB. Key in the DATA
and run the program to obtain the
graphics for these letters.

```
  10 REM    Builder
  20 REM written by: M. Turner
entered by M. Leidel, appeared
in Apr. 85 Sinclair user
  30:
  40 FOR f=0 TO 47: READ d: POKE
USR "A"+f,d: NEXT f
  50 DATA 254,d,d,0,239,d,d,0,25
4,d,0,239,d,0,254,d,170,85,170,8
5,170,85,170,d,85,170,85,170,85,
170,85,170,2,6,4,56,72,88,176,19
2,255,145,d,d,d,d,153,255
  60 BORDER 4: PAPER 6: CLS : PR
INT '"        BB BUILDER BB"'"
       AA        AA"'''"USE KE
YS:"'"5,6,7,8 to lay bricks"'"C
APS/SHIFT to remove bricks"
  70 PRINT ''"PRESS KEYS:"'"1 -
4 to change brick type"'"W for
windows"'"D for doorways"'"Z to
copy to printer"'"X to clear scr
een & start again"
  80 PAUSE NOT PI: CLS
  90 LET x=0: LET y=x
 100 LET k=49: GO TO 180
 110 PAUSE 1: PRINT AT x,y; INK
1;"E"
 120 PAUSE NOT PI: LET k=CODE IN
KEY$
 130 BEEP .01,k/4: PRINT INK i;
PAPER p; BRIGHT b;AT x,y;a$
 140 IF k=8 OR k=9 OR k=10 OR k=
11 THEN PRINT AT x,y;" "
 150 LET x=x+((k=54 OR k=10) AND
x<21)-((k=55 OR k=11) AND x>0):
LET y=y+((k=56 OR k=9) AND y<31
)-((k=53 OR k=8) AND y>0)
 160 IF k=122 THEN POKE 23658,8:
 INPUT "please enter title";t$:
PRINT #0;AT 1,0;t$: POKE 23658,0
: LPRINT '': COPY : LPRINT 't$'
 170 IF k=120 THEN CLS : GO TO 9
0
 180 IF k=49 THEN LET a$="A": LE
T i=2: LET p=7: LET b=0
 190 IF k=50 THEN LET a$="B": LE
T i=3: LET p=7: LET b=1
 200 IF k=51 THEN LET a$="C": LE
T i=4: LET p=6: LET b=0
 210 IF k=52 THEN LET a$="D": LE
T i=4: LET p=6: LET b=1
 220 IF k=119 THEN LET a$="F": L
ET i=0: LET p=5: LET b=1
 230 IF k=100 THEN LET a$=" ": L
ET i=0
 240 GO TO 110
```

TITLE DISPLAY

(FROM SINC-LINC 5-6/89 by David Solly)

This is good for an action getter for a game title. Just change line 60 with your wording, up to 16 characters long. It can be incorporated into other programs that do not have pixels at the 0,0 to 0,16 character locations.

Line 60 places the title in the top left corner of the screen. It cannot be seen normally as INK is the same color as PAPER. However, the computer scans the area of the screen (the 2 FOR-NEXT loops, x and y) for the presence of pixels operated by the the wording, and if, in line 90, it detects an oparated pixel the routine in lines 100-140 comes into play to spell the wording out in the mid-section of the screen.

```
    60 INK 7: PAPER 1: BORDER 1:
CLS: PRINT INK 1; AT 0,0;"BANG!
YER  DEAD!"
    70 FOR x=0 TO 127
    80 FOR y=0 TO 7
    90 IF NOT POINT (x,y+168) THEN
GO TO 150
    100 PLOT 2*x,3*y+80
    110 PLOT 0,0: DRAW OVER 1;2*x,
3*y+79
    120 PLOT 0,0: DRAW OVER 1;2*x,
3*y+79
    130 BEEP .001,30
    140 PLOT 2*x,3*y+80
    150 NEXT y
    160 NEXT x
    170 CLS: RUN
  9000 REM  Disc save. This is for
LKDOS. Change to fit your system.
 9010 PRINT USR 100: SAVE "GUN.B1"
LINE 1
 9020 REM Editors note: as I recall
both lines 110 & 120 are required.
```

FROM THE EDITOR'S DESK

Product reviews are a bit difficult to do objectively. What is of special interest to the reviewer gets the most attention. Unless a product is put thru its paces, a lot of guess work and manual exerpts must be used. I prefer to try out an item (also programs I copy for the news letter), so my intent to

include the program, WordMaster, in this issue left me short of material as there was more to learning the ins-and-outs of this detailed word processor for the 2068 that I realized. There are two other programs that make up the desk top publishing package that require using to get a better feel for the capability of this package. Maybe it will be in the next issue.

This is an interesting package as it gives the user the ability to produce 1, 2, and 3 column printing, plus adding graphics of various dimensions. This requires a good many different fonts, particularly for headings of various designs. I obtained the 3 program set from Jack Dohany.

A lot of members sure missed out on a good feed and good companionship for the pot luck at the Armstrongs. A total of 10 people showed and there was enough food for an army. I wonder why? Are pot luck on the way out? You get good home cooked food, home made ice cream, pies, cakes, all kinds of hot food.

Mention has been made of Jack Dohany's corrected 2068/Spectrum ROM. It is sure great having that cursor bounce along like a real computer. Jack is working on a 64K version with space for OS 64 plus an extra 16K. There is also an 80 column display in process.

One of these days I will get into a graphic program Jack calls "GYPSY". One of our subscribers, Doty Bundy of Ventura, CA (she has been mentioned before), has used this program with fine results. Some of her art work has appeared in THE PLOTTER and Jack Dohany include some of her work in some of his graphic icons.

Do our readers get the sales picture in computer producsts? BITS & BYTES has it if you slipped over this article. Rod has tried hard to provide products of interest. He provides both a hard copy catalog as well as a nice monthly upgrade on disk. His prices are good. As a result of the TS situation, he has

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added products in the IBM Clone field. He is not letting us TS users down, it is a matter of survival. Other dealers have switched 100% to other products.

I have added an MS-DOS computer to my equipment. Why, you ask? Well, granted that there is a lot more to learn about the 2068, I considered it adviseable to add MS-DOS to my knowledge. I have 3 sons all using various versions of MS-DOS and similar operating systems. I found that they were discussing things that I had no inkling of. After all, those little grey cells need to be stimulated, particularly at my age. I am counting on the CCAT/S educational meetings in MS-DOS to explain what is in all of those books. It is a different world than Sinclair Basic.

—NOTICE—

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